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LOGINID:SSSPTA1623PAZ

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS 1		Web Page URLs for STN Seminar Schedule - N. America
NEWS 2		"Ask CAS" for self-help around the clock
NEWS 3	OCT 23	The Derwent World Patents Index suite of databases on STN has been enhanced and reloaded
NEWS 4	OCT 30	CHEMLIST enhanced with new search and display field
NEWS 5	NOV 03	JAPIO enhanced with IPC 8 features and functionality
NEWS 6	NOV 10	CA/CAPLUS F-Term thesaurus enhanced
NEWS 7	NOV 10	STN Express with Discover! free maintenance release Version 8.01c now available
NEWS 8	NOV 20	CAS Registry Number crossover limit increased to 300,000 in additional databases
NEWS 9	NOV 20	CA/CAPLUS to MARPAT accession number crossover limit increased to 50,000
NEWS 10	DEC 01	CAS REGISTRY updated with new ambiguity codes
NEWS 11	DEC 11	CAS REGISTRY chemical nomenclature enhanced
NEWS 12	DEC 14	WPIDS/WPINDEX/WPIX manual codes updated
NEWS 13	DEC 14	GBFULL and FRFULL enhanced with IPC 8 features and functionality
NEWS 14	DEC 18	CA/CAPLUS pre-1967 chemical substance index entries enhanced with preparation role
NEWS 15	DEC 18	CA/CAPLUS patent kind codes updated
NEWS 16	DEC 18	MARPAT to CA/CAPLUS accession number crossover limit increased to 50,000
NEWS 17	DEC 18	MEDLINE updated in preparation for 2007 reload
NEWS 18	DEC 27	CA/CAPLUS enhanced with more pre-1907 records
NEWS 19	JAN 08	CHEMLIST enhanced with New Zealand Inventory of Chemicals
NEWS EXPRESS	NOVEMBER 10	CURRENT WINDOWS VERSION IS V8.01c, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.
NEWS HOURS		STN Operating Hours Plus Help Desk Availability
NEWS LOGIN		Welcome Banner and News Items
NEWS IPC8		For general information regarding STN implementation of IPC 8
NEWS X25		X.25 communication option no longer available

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 10:18:19 ON 12 JAN 2007

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 10:18:58 ON 12 JAN 2007

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STRUCTURE FILE UPDATES: 11 JAN 2007 HIGHEST RN 917345-85-8

DICTIONARY FILE UPDATES: 11 JAN 2007 HIGHEST RN 917345-85-8

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TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

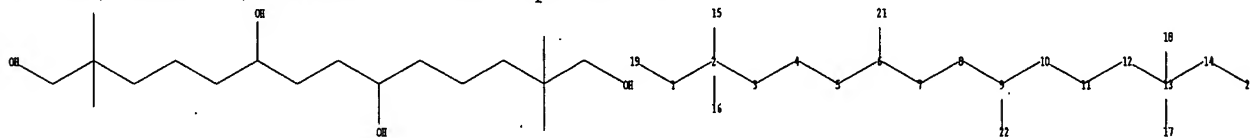
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=>

Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary files\10743109\10743109 elected species.str



chain nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22

chain bonds :

1-2 1-19 2-3 2-15 2-16 3-4 4-5 5-6 6-7 6-21 7-8 8-9 9-10 9-22 10-11
11-12 12-13 13-14 13-17 13-18 14-20

exact/norm bonds :

1-19 6-21 9-22 14-20

exact bonds :

1-2 2-3 2-15 2-16 3-4 4-5 5-6 6-7 7-8 8-9 9-10 10-11 11-12 12-13
13-14 13-17 13-18

Match level :

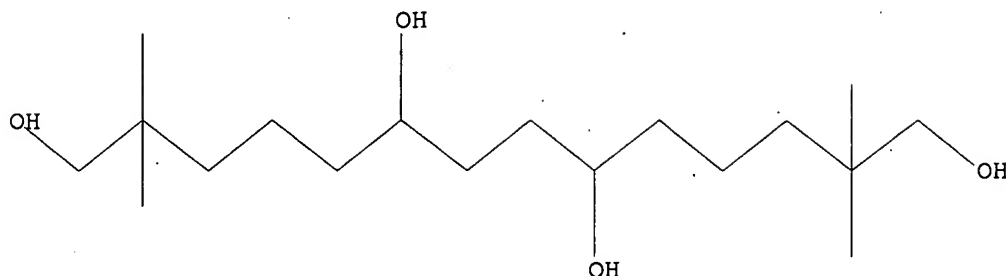
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS
18:CLASS 19:CLASS 20:CLASS 21:CLASS 22:CLASS

L1 STRUCTURE UPLOADED

=> d 11

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> search 11 exact sss

'EXACT' IS NOT VALID HERE

For additional help, enter "HELP SEARCH".

=> search 11 exact sam

SAMPLE SEARCH INITIATED 10:19:43 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 8 TO ITERATE

100.0% PROCESSED 8 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 8 TO 329

PROJECTED ANSWERS: 0 TO 0

L2 0 SEA EXA SAM L1

=> search 11 exact full

FULL SEARCH INITIATED 10:19:50 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 181 TO ITERATE

100.0% PROCESSED 181 ITERATIONS

1 ANSWERS

SEARCH TIME: 00.00.01

L3 1 SEA EXA FUL L1

=> d 13

L3 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2007 ACS on STN

RN 738606-82-1 REGISTRY

ED Entered STN: 03 Sep 2004

CN 1,6,9,14-Tetradecanetetrol, 2,2,13,13-tetramethyl- (9CI) (CA INDEX NAME)

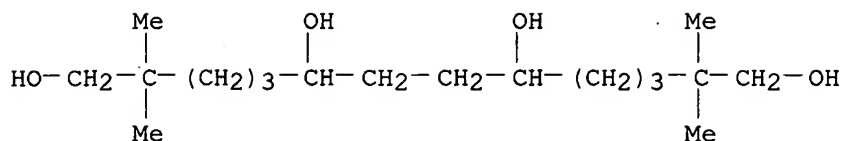
OTHER NAMES:

CN 2,2,13,13-Tetramethyltetradecane-1,6,9,14-tetraol

MF C18 H38 O4

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPAT2, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
60.65	60.86

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 10:20:03 ON 12 JAN 2007

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FILE COVERS 1907 - 12 Jan 2007 VOL 146 ISS 4

FILE LAST UPDATED: 11 Jan 2007 (20070111/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/infopolicy.html>

=> l3

L4 1 L3

=> d 14

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2004:648491 CAPLUS

DN 141:190505

TI Preparation of hydroxyl compounds for cholesterol management and related uses

IN Dasseux, Jean-Louis Henri; Oniciu, Daniela Carmen

PA Esperion Therapeutics, Inc., USA

SO PCT Int. Appl., 348 pp.

CODEN: PIXXD2

DT Patent

LA English

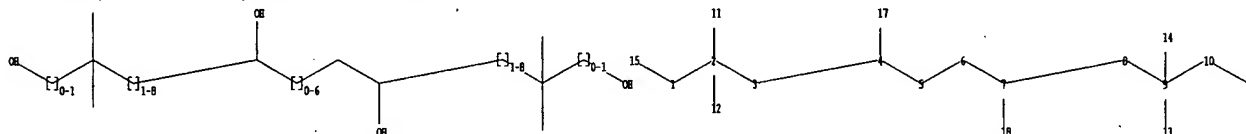
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----

PI	WO 2004067489	A2	20040812	WO 2003-US41411	20031223
	WO 2004067489	A3	20041125		
	WO 2004067489	A8	20050217		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	CA 2513660	A1	20040812	CA 2003-2513660	20031223
	AU 2003299993	A1	20040823	AU 2003-299993	20031223
	US 2004209847	A1	20041021	US 2003-743287	20031223
	US 7119221	B2	20061010		
	US 2004214887	A1	20041028	US 2003-743109	20031223
	US 2005043278	A1	20050224	US 2003-743470	20031223
	EP 1597223	A2	20051123	EP 2003-800258	20031223
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	BR 2003018046	A	20051220	BR 2003-18046	20031223
	JP 2006513251	T	20060420	JP 2004-567452	20031223
	US 2006229281	A1	20061012	US 2006-426380	20060626
PRAI	US 2003-441795P	P	20030123		
	US 2003-743287	A3	20031223		
	WO 2003-US41411	W	20031223		
OS	MARPAT 141:190505				

=>

Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary files\10743109\10743109 1st stab.str



chain nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

chain bonds :

1-2 1-15 2-3 2-11 2-12 3-4 4-17 4-5 5-6 6-7 7-18 7-8 8-9 9-10 9-13 9-14 10-16

exact/norm bonds :

1-15 4-17 7-18 10-16

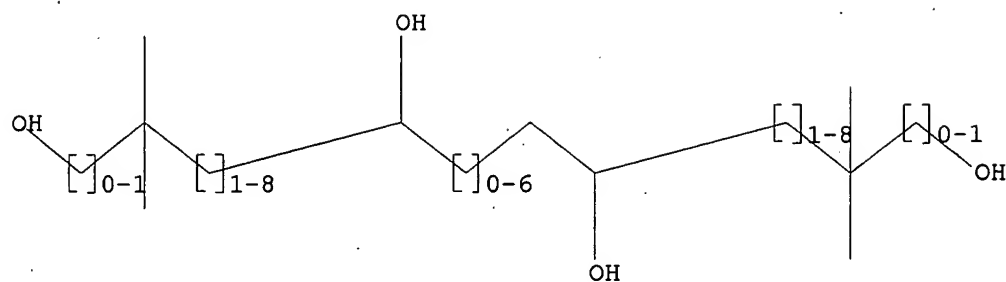
exact bonds :

1-2 2-3 2-11 2-12 3-4 4-5 5-6 6-7 7-8 8-9 9-10 9-13 9-14

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS
18:CLASS

=> d 15
 L5 HAS NO ANSWERS
 L5 STR



Structure attributes must be viewed using STN Express query preparation.

=> search 15 sss sam
 REGISTRY INITIATED
 Substance data SEARCH and crossover from CAS REGISTRY in progress...
 Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

SAMPLE SEARCH INITIATED 10:26:48 FILE 'REGISTRY'
 SAMPLE SCREEN SEARCH COMPLETED - 87083 TO ITERATE

2.3% PROCESSED 2000 ITERATIONS 1 ANSWERS
 INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
 SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
 BATCH **INCOMPLETE**
 PROJECTED ITERATIONS: 1724128 TO 1759192
 PROJECTED ANSWERS: 475 TO 1265

L6 1 SEA SSS SAM L5

L7 1 L6

=> d scan

L7 1 ANSWERS CAPLUS COPYRIGHT 2007 ACS on STN
 IC D06M013-46
 CC 39-10 (Textiles)
 TI Water- and greaseproofing finishing of hydroxyl- and amine-containing fibrous materials
 ST waterproofing oilproofing textile; perfluoropolymer oilproofing waterproofing textile; pyridinium fluoro waterproofing oilproofing textile
 IT Pyridinium compounds
 RL: USES (Uses)
 (fluorinated, polymers, oilproofing waterproofing agents, for textiles)
 IT Fluoropolymers
 RL: USES (Uses)
 (oilproofing waterproofing agents, for textiles)
 IT Oilproofing

Waterproofing
(agents, fluorinated vinylpyridinium polymers as)
IT 77753-59-4 77753-61-8 77753-63-0 77753-65-2
RL: USES (Uses)
(oilproofing waterproofing agents, for textiles)

ALL ANSWERS HAVE BEEN SCANNED

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.47

68.13

FILE 'REGISTRY' ENTERED AT 10:27:14 ON 12 JAN 2007
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DICTIONARY FILE UPDATES: 11 JAN 2007 HIGHEST RN 917345-85-8

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TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

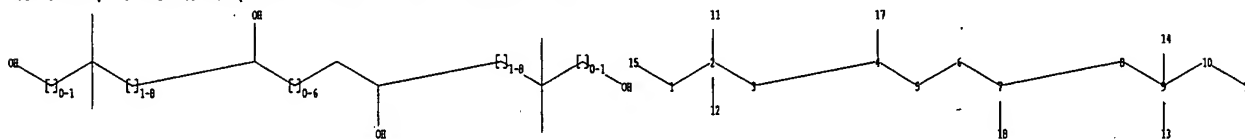
Please note that search-term pricing does apply when
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REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
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on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=>

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files\10743109\10743109 1st stab.str



chain nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

chain bonds :

1-2 1-15 2-3 2-11 2-12 3-4 4-17 4-5 5-6 6-7 7-18 7-8 8-9 9-10 9-13
9-14 10-16

exact/norm bonds :

1-15 4-17 7-18 10-16

exact bonds :

1-2 2-3 2-11 2-12 3-4 4-5 5-6 6-7 7-8 8-9 9-10 9-13 9-14

Match level :

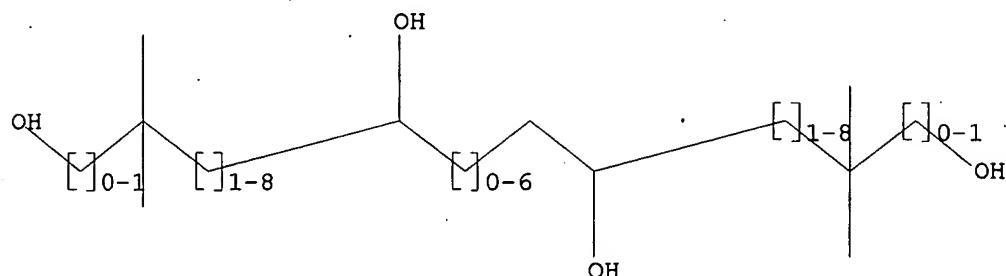
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS
 10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS
 18:CLASS

L8 STRUCTURE UPLOADED

=> d 18

L8 HAS NO ANSWERS

L8 STR



Structure attributes must be viewed using STN Express query preparation.

=> search 18 sss sam

SAMPLE SEARCH INITIATED 10:27:47 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 87083 TO ITERATE

2.3% PROCESSED 2000 ITERATIONS
 INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
 SEARCH TIME: 00.00.01

1 ANSWERS

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
 BATCH **INCOMPLETE**

PROJECTED ITERATIONS: 1724128 TO 1759192

PROJECTED ANSWERS: 475 TO 1265

L9 1 SEA SSS SAM L8

=> d scan

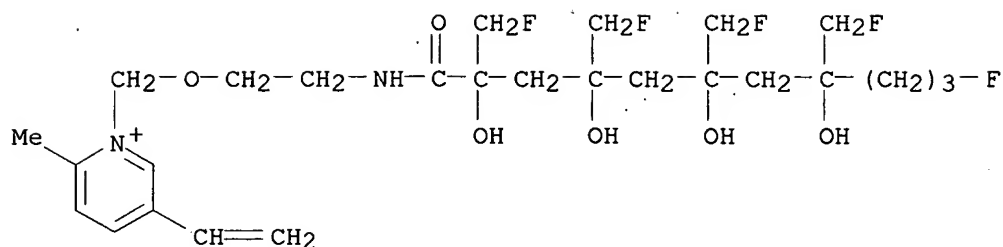
L9 1 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN

IN Pyridinium, 5-ethenyl-1-[[2-[[11-fluoro-2,4,6,8-tetrakis(fluoromethyl)-
 2,4,6,8-tetrahydroxy-1-oxoundecyl]amino]ethoxy]methyl]-2-methyl-,
 chloride, homopolymer (9CI)

MF (C26 H40 F5 N2 O6 . Cl)x

CI PMS

CM 1



● Cl⁻

ALL ANSWERS HAVE BEEN SCANNED

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE ENTRY	TOTAL SESSION
1.35	69.48

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 10:29:07 ON 12 JAN 2007

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FILE COVERS 1907 - 12 Jan 2007 VOL 146 ISS 4

FILE LAST UPDATED: 11 Jan 2007 (20070111/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/infopolicy.html>

=> tetraol

945 TETRAOL

197 TETRAOLS

L10

1094 TETRAOL

(TETRAOL OR TETRAOLS)

=> tetramethyl

52665 TETRAMETHYL

16 TETRAMETHYLS

L11

52670 TETRAMETHYL

(TETRAMETHYL OR TETRAMETHYLS)

=> 110(1)111

L12

10 L10(L)L11

=> d ml12 1-10 ti
'ML12' IS NOT A VALID FORMAT FOR FILE 'CAPLUS'

The following are valid formats:

ABS ----- GI and AB
ALL ----- BIB, AB, IND, RE
APPS ----- AI, PRAI
BIB ----- AN, plus Bibliographic Data and PI table (default)
CAN ----- List of CA abstract numbers without answer numbers
CBIB ----- AN, plus Compressed Bibliographic Data
CLASS ----- IPC, NCL, ECLA, FTERM
DALL ----- ALL, delimited (end of each field identified)
DMAX ----- MAX, delimited for post-processing
FAM ----- AN, PI and PRAI in table, plus Patent Family data
FBIB ----- AN, BIB, plus Patent FAM
IND ----- Indexing data
IPC ----- International Patent Classifications
MAX ----- ALL, plus Patent FAM, RE
PATS ----- PI, SO
SAM ----- CC, SX, TI, ST, IT
SCAN ----- CC, SX, TI, ST, IT (random display, no answer numbers;
 SCAN must be entered on the same line as the DISPLAY,
 e.g., D SCAN or DISPLAY SCAN)
STD ----- BIB, CLASS

IABS ----- ABS, indented with text labels
IALL ----- ALL, indented with text labels
IBIB ----- BIB, indented with text labels
IMAX ----- MAX, indented with text labels
ISTD ----- STD, indented with text labels

OBIB ----- AN, plus Bibliographic Data (original)
OIBIB ----- OBIB, indented with text labels

SBIB ----- BIB, no citations
SIBIB ----- IBIB, no citations

HIT ----- Fields containing hit terms
HITIND ----- IC, ICA, ICI, NCL, CC and index field (ST and IT)
 containing hit terms
HITRN ----- HIT RN and its text modification
HITSTR ----- HIT RN, its text modification, its CA index name, and
 its structure diagram
HITSEQ ----- HIT RN, its text modification, its CA index name, its
 structure diagram, plus NTE and SEQ fields
FHITSTR ----- First HIT RN, its text modification, its CA index name, and
 its structure diagram
FHITSEQ ----- First HIT RN, its text modification, its CA index name, its
 structure diagram, plus NTE and SEQ fields
KWIC ----- Hit term plus 20 words on either side
OCC ----- Number of occurrence of hit term and field in which it occurs

To display a particular field or fields, enter the display field codes. For a list of the display field codes, enter HELP DFIELDS at an arrow prompt (=>). Examples of formats include: TI; TI,AU; BIB,ST; TI,IND; TI,SO. You may specify the format fields in any order and the information will be displayed in the same order as the format specification.

All of the formats (except for SAM, SCAN, HIT, HITIND, HITRN, HITSTR, FHITSTR, HITSEQ, FHITSEQ, KWIC, and OCC) may be used with DISPLAY ACC

to view a specified Accession Number.
ENTER DISPLAY FORMAT (BIB):end

=> d 112 1-10 ti

L12 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN
TI p-Methyltetrahomodioxacalix[4]arene

L12 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN
TI Colored thermographic media useful for bar codes for near-IR scanning

L12 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN
TI High-molecular-weight piperidine derivatives as UV stabilizers

L12 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN
TI Thiolation and silylation of 2,4,7,9-tetramethyl
-5-decyne-2',4',7',9'-tetraol

L12 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN
TI 3,6-Di-tert-butylpyrocatechol-based cyclic acetals

L12 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN
TI Poly(ol esters) of alkylated 4-hydroxybenzylphosphinic acids

L12 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN
TI Polyurethane foams having improved air permeability

L12 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN
TI Tertiary trihydric alcohols of the acetylene and ethylene series and their
reactions. XXXI. Synthesis and hydrogenation of 2,3-dimethyl-4-octyne-
2,3,6-triol and 2,3-dimethyl-4-nonyne-2,3,6-triol

L12 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN
TI Acetylenic tertiary trihydric alcohols and their transformations. XXV.
Mechanism of hydrogenation of polyhydroxy derivatives of acetylene

L12 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN
TI Carotenoid syntheses. XXIX. Synthesis of isorenieratene

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

14.47

83.95

FILE 'REGISTRY' ENTERED AT 10:38:19 ON 12 JAN 2007
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TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

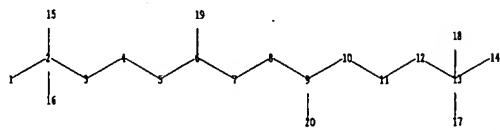
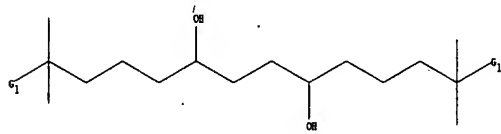
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<http://www.cas.org/ONLINE/UG/regprops.html>

=>

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chain nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

chain bonds :

1-2 2-3 2-15 2-16 3-4 4-5 5-6 6-7 6-19 7-8 8-9 9-10 9-20 10-11 11-12
12-13 13-14 13-17 13-18

exact/norm bonds :

1-2 6-19 9-20 13-14

exact bonds :

2-3 2-15 2-16 3-4 4-5 5-6 6-7 7-8 8-9 9-10 10-11 11-12 12-13 13-17
13-18

G1:C,O

Hydrogen count :

15:>= minimum 3 16:>= minimum 3 17:>= minimum 3 18:>= minimum 3

Match level :

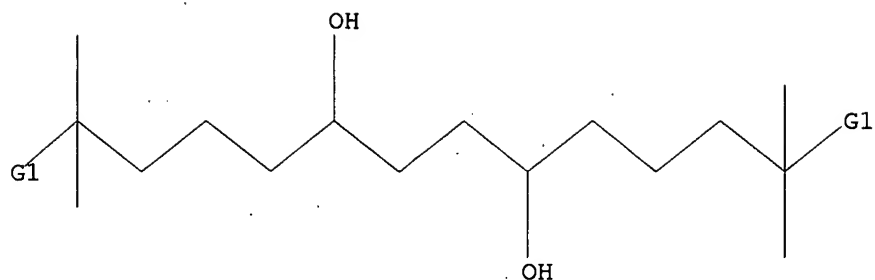
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS
18:CLASS 19:CLASS 20:CLASS

L13 STRUCTURE UPLOADED

=> d 113

L13 HAS NO ANSWERS

L13 STR



G1 C,O

Structure attributes must be viewed using STN Express query preparation.

=> search l13 sss sam

SAMPLE SEARCH INITIATED 10:38:53 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 729 TO ITERATE

100.0% PROCESSED 729 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 12961 TO 16199

PROJECTED ANSWERS: 0 TO 0

L14 0 SEA SSS SAM L13

=> search l13 sss full

FULL SEARCH INITIATED 10:39:11 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 13742 TO ITERATE

100.0% PROCESSED 13742 ITERATIONS

2 ANSWERS

SEARCH TIME: 00.00.01

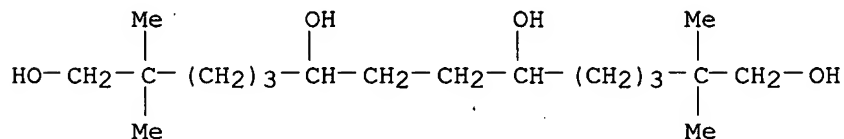
L15 2 SEA SSS FUL L13

=> d scan

L15 2 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN

IN 1,6,9,14-Tetradecanetetrol, 2,2,13,13-tetramethyl- (9CI)

MF C18 H38 O4



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

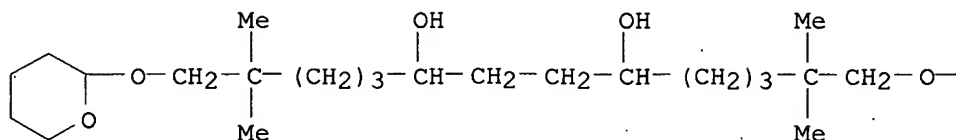
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

L15 2 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN

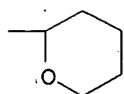
IN 6,9-Tetradecanediol, 2,2,13,13-tetramethyl-1,14-bis[(tetrahydro-2H-pyran-2-

yl)oxy]- (9CI)
MF C28 H54 O6

PAGE 1-A



PAGE 1-B



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> file caplus

COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE

ENTRY

172.55

TOTAL

SESSION

256.50

FILE 'CAPLUS' ENTERED AT 10:39:30 ON 12 JAN 2007

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FILE COVERS 1907 - 12 Jan 2007 VOL 146 ISS 4

FILE LAST UPDATED: 11 Jan 2007 (20070111/ED)

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<http://www.cas.org/infopolicy.html>

=> l15

L16

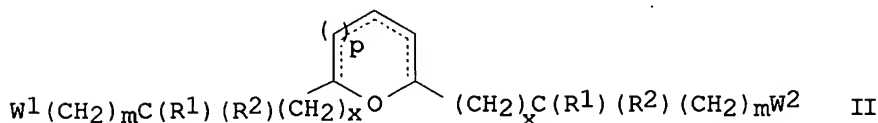
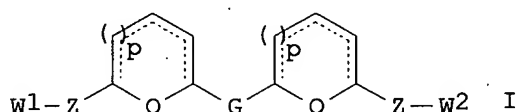
4 L15

=> d l16 1-4 ti fbib abs

L16 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN

TI Preparation of acyclic and cyclic ethers for cholesterol management and related uses
 AN 2005:673246 CAPLUS
 DN 143:172758
 TI Preparation of acyclic and cyclic ethers for cholesterol management and related uses
 IN Basseux, Jean-Louis; Oniciu, Carmen Daniela
 PA Esperion Therapeutics, Inc., USA
 SO PCT Int. Appl., 334 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005068410	A1	20050728	WO 2003-US41611	20031224
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	RW:	BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	AU 2003300438	A1	20050803	AU 2003-300438	20031224
				WO 2003-US41611	A 20031224
OS	MARPAT 143:172758				
GI					



AB The present invention relates to novel ether compds. W1-Z-O-G-O-Z-W2 (I; variables defined below; e.g. 5-[6-(5-hydroxy-4,4-dimethylpentyl)tetrahydropyran-2-yl]-2,2-dimethylpentan-1-ol), cyclic mono- and bis-ethers (shown as II and III; variables defined in claims), compns. comprising ether compds., and methods useful for treating and preventing cardiovascular diseases, dyslipidemias, dyslipoproteinemias, and glucose metabolism disorders comprising administering a composition comprising

an ether compound The compds., compns., and methods of the invention are also useful for treating and preventing Alzheimer's Disease, Syndrome X, peroxisome proliferator activated receptor-related disorders, septicemia, thrombotic disorders, obesity, pancreatitis, hypertension, renal disease, cancer, inflammation, and impotence. The effects of illustrative compds. of the invention on non-HDL cholesterol, HDL cholesterol, triglyceride levels, glycemic control indicators and body weight control in obese female Zucker rats and on the in vitro lipid synthesis in isolated hepatocytes

are tabulated. For I: Z = (CH₂)_m, (CH:CH)_t, or phenyl; m, t = 1-9; G is (CH₂)_x, CH₂CH:CHCH₂, CH:CH, CH₂-phenyl-CH₂, or phenyl; x = 2-4; W1 and W2 = C(R1)(R2)(CH₂)_nY, V, C(R3)(R4)(CH₂)_cC(R5)(R6)(CH₂)_nY, or C(R1)(R2)(CH₂)_cV; c = 1-2; n = 0-4; R1, R2 = (C1-C6)alkyl, (C2-C6)alkenyl, (C2-C6)alkynyl, Ph, benzyl, or, R1 and R2 and the C to which they are both attached are taken together to form a (C3-C7)cycloalkyl group; R3, R4 = H, (C1-C6)alkyl, (C2-C6)alkenyl, (C2-C6)alkynyl, Ph, benzyl, or R3 and R4 and the C to which they are both attached are taken together to form a (C3-C7)cycloalkyl; R5 is H, (C1-C6)alkyl, (C2-C6)alkenyl, (C2-C6)alkynyl, (C1-C6)alkoxy, Ph, benzyl, Cl, Br, CN, NO₂, or CF₃. R6 is OH, (C1-C6)alkyl, (C2-C6)alkenyl, (C2-C6)alkynyl, (C1-C6)alkoxy, Ph, benzyl, Cl, Br, CN, NO₂, or CF₃; V is 2H-tetrahydropyran-2-yloxy, various lactonyl groups; Y = (C1-C6)alkyl, OH, COOH, CHO, COOR⁷, SO₃H, etc.; R⁷ is (C1-C6)alkyl, (C2-C6)alkenyl, (C2-C6)alkynyl, Ph, or benzyl and is (un)substituted with ≥1 halo, OH, (C1-C6)alkoxy, or Ph groups; R⁸ = H, (C1-C6)alkyl, (C2-C6)alkenyl, or (C2-C6)alkynyl and is (un)substituted with one or two halo, OH, (C1-C6)alkoxy, or Ph groups; R⁹ = H, (C1-C6)alkyl, (C2-C6)alkenyl, or (C2-C6)alkynyl; addnl. details including provisos are given in the claims. Although the methods of preparation are not claimed, many example preps., primarily of III and acyclic monoethers, are included. For example, bis(6-hydroxy-5,5-dimethylhexyl) ether was prepared on a kg-scale in 6 steps starting from Et isobutyrate and 1,4-dibromobutane with an overall yield of .apprx.20% producing a material of >98% purity.

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN
TI Preparation of ethers for cholesterol management and related uses
AN 2004:802572 CAPLUS
DN 141:295623
TI Preparation of ethers for cholesterol management and related uses
IN Dasseux, Jean-Louis Henri; Oniciu, Carmen Daniela
PA USA
SO U.S. Pat. Appl. Publ., 149 pp., Cont.-in-part of U.S. Ser. No. 976,867.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004192771	A1	20040930	US 2003-743951	20031224
				US 2001-976867	A2 20011011
	US 2003018013	A1	20030123	US 2001-976867	20011011
	US 6713507	B2	20040330		
				US 2000-239482P	P 20001011

PATENT FAMILY INFORMATION:

FAN 2002:293588

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002030863	A2	20020418	WO 2001-US31873	20011011
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RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
				US 2000-239482P	P 20001011

CA 2425121	A1	20020418	CA 2001-2425121	20011011
			US 2000-239482P	P 20001011
			WO 2001-US31873	W 20011011
AU 200213137	A	20020422	AU 2002-13137	20011011
			US 2000-239482P	P 20001011
			WO 2001-US31873	W 20011011
EP 1351916	A2	20031015	EP 2001-981500	20011011
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
			US 2000-239482P	P 20001011
			WO 2001-US31873	W 20011011
JP 2004529069	T	20040924	JP 2002-534253	20011011
			US 2000-239482P	P 20001011
			WO 2001-US31873	W 20011011
BR 2001014617	A	20051213	BR 2001-14617	20011011
			US 2000-239482P	P 20001011
			WO 2001-US31873	W 20011011
OS	MARPAT 141:295623			
AB	Title compds., e.g. W1ZOGOZW2 [Z = (CH ₂) _m , (CH:CH) _t , phenylene; m, t = 1-9; G = (CH ₂) _x , CH ₂ CH:CHCH ₂ , CH:CH, CH ₂ -phenylene-CH ₂ , phenylene; x = 2-4; W1, W2 = CR1R2(CH ₂) _n Y, V, CR3R4(CH ₂)cCR5R6(CH ₂) _n Y, CR1R2(CH ₂)cV; c = 1, 2; n = 0-4; R1, R2 = alkyl, alkenyl, alkynyl, Ph, PhCH ₂ ; R1R2C, R3R4C = atoms to form a cycloalkyl ring; R3, R4 = H, R1; R5 = H, alkyl, alkenyl, alkynyl, alkoxy, Ph, PhCH ₂ , Cl, Br, cyano, NO ₂ , CF ₃ ; R6 = OH, alkyl, alkenyl, alkynyl, alkoxy, Ph, PhCH ₂ , Cl, Br, cyano, NO ₂ , CF ₃ ; V = tetrahydropyran-2-yloxy, 2-oxooxetanyl, 2-oxotetrahydrofuryl, 2-oxotetrahydropyranyl, tetrazolyl, 3-hydroxyisoxazolyl, etc.], were prepared Thus, [HOCH ₂ CM ₂ (CH ₂) ₃ OCH ₂] ₂ (preparation given) at 30 mg/kg/day orally in obese female Zucker rats reduced serum triglycerides by 30% after 2 wk.			
L16	ANSWER 3 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN			
TI	Long Hydrocarbon Chain Ether Diols and Ether Diacids That Favorably Alter Lipid Disorders in Vivo			
AN	2004:737064 CAPLUS			
DN	141:388457			
TI	Long Hydrocarbon Chain Ether Diols and Ether Diacids That Favorably Alter Lipid Disorders in Vivo			
AU	Mueller, Ralf; Yang, Jing; Duan, Caiming; Pop, Emil; Zhang, Lian Hao; Huang, Tian-Bao; Denisenko, Anna; Denisko, Olga V.; Oniciu, Daniela C.; Bisgaier, Charles L.; Pape, Michael E.; Freiman, Catherine Delaney; Goetz, Brian; Cramer, Clay T.; Hopson, Krista L.; Dasseux, Jean-Louis H.			
CS	Alchem Laboratories Corporation, Alachua, FL, 32615, USA			
SO	Journal of Medicinal Chemistry (2004), 47(21), 5183-5197 CODEN: JMCMAR; ISSN: 0022-2623			
PB	American Chemical Society			
DT	Journal			
LA	English			
OS	CASREACT 141:388457			
AB	Long hydrocarbon chain ethers with bis-terminal hydroxyl or carboxyl groups have been synthesized and evaluated for their potential to favorably alter lipid disorders including metabolic syndrome. Compds. were assessed for their effects on the de novo incorporation of radiolabeled acetate into lipids in primary cultures of rat hepatocytes as well as for their effects on lipid and glycemic variables in female obese Zucker fatty rats following 1 and 2 wk of daily oral administration. The most active compds. were found to be sym. with four to five methylene groups separating the central ether functionality and the gem di-Me or methyl/aryl substituents. Biol. activity was found to be greatest for tetramethyl-substituted ether diols, while bis(arylmethyl) derivs., diethers, and di-Ph ethers were the least active. For the most biol. active compound 28, we observed as much as a 346% increase in serum HDL-cholesterol and a 71% reduction in serum triglycerides at the highest dose			

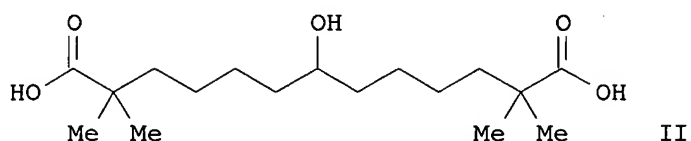
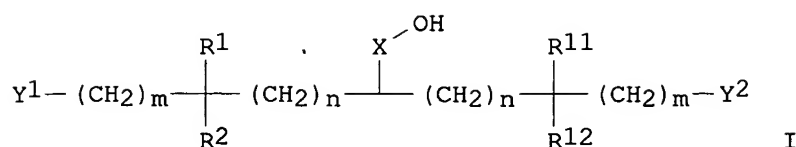
administered (100 mg/kg) after 2 wk of treatment. For one compound we observed a 69% reduction in non-HDL-cholesterol, accompanied by a 131% increase in HDL-cholesterol and an 84% reduction in serum triglycerides under the same treatment conditions.

RE.CNT 43 THERE ARE 43 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN
TI Preparation of hydroxyl compounds for cholesterol management and related uses
AN 2004:648491 CAPLUS
DN 141:190505
TI Preparation of hydroxyl compounds for cholesterol management and related uses
IN Dasseux, Jean-Louis Henri; Oniciu, Daniela Carmen
PA Esperion Therapeutics, Inc., USA
SO PCT Int. Appl., 348 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004067489	A2	20040812	WO 2003-US41411	20031223
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	WO 2004067489	A8	20050217		
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	CA 2513660	A1	20040812	CA 2003-2513660	20031223
				US 2003-441795P	P 20030123
				WO 2003-US41411	W 20031223
	AU 2003299993	A1	20040823	AU 2003-299993	20031223
				US 2003-441795P	P 20030123
				WO 2003-US41411	W 20031223
	US 2004209847	A1	20041021	US 2003-743287	20031223
	US 7119221	B2	20061010		
				US 2003-441795P	P 20030123
	US 2004214887	A1	20041028	US 2003-743109	20031223
				US 2003-441795P	P 20030123
	US 2005043278	A1	20050224	US 2003-743470	20031223
				US 2003-441795P	P 20030123
	EP 1597223	A2	20051123	EP 2003-800258	20031223
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				WO 2003-US41411	W 20031223
	BR 2003018046	A	20051220	BR 2003-18046	20031223
				US 2003-441795P	P 20030123
				WO 2003-US41411	W 20031223
	JP 2006513251	T	20060420	JP 2004-567452	20031223
				US 2003-441795P	P 20030123
				WO 2003-US41411	W 20031223
	US 2006229281	A1	20061012	US 2006-426380	20060626
				US 2003-441795P	P 20030123

OS MARPAT 141:190505
GI



AB Title hydroxyalkanes I [wherein m = 0-5; n = 3-7; X = (CH₂)_p or CH₂; p = 0-4; R₁, R₂, R₁₁, R₁₂ = independently H, alkyl, alkenyl, alkynyl, Ph, PhCH₂, wherein R₁, R₂, R₁₁, and R₁₂ are not simultaneously H; Y₁, Y₂ = independently alkyl, OH, CO₂H, CO₂R₃, SO₃H, (un)substituted heterocyclyl, (di)phosphate and triphosphate esters, etc.; R₃ = (un)substituted alkyl, alkenyl, alkynyl, Ph, PhCH₂; and pharmaceutically acceptable salts, hydrates, solvates, or mixts. thereof] were prepared for cholesterol management. Thus, reduction of 7-oxo-2,2,12,12-tetramethyltridecanedioic acid di-Et ester with Na(BH₄) in MeOH gave 7-hydroxy-2,2,12,12-tetramethyltridecanedioic acid di-Et ester (92%), which was saponified with KOH in EtOH to afford the diacid II (95%). The latter inhibited lipid synthesis in primary rat hepatocytes with IC₅₀ of 3.4 μM. In addition, the present invention relates to I, compns. comprising I, and methods useful for treating and preventing a variety of diseases and conditions such as, but not limited to aging, Alzheimer's disease, cancer, cardiovascular disease, diabetic nephropathy, diabetic retinopathy, a disorder of glucose metabolism, dyslipidemia, dyslipoproteinemia, hypertension, impotence, inflammation, insulin resistance, lipid elimination in bile, obesity, oxysterol elimination in bile, pancreatitis, Parkinson's disease, a peroxisome proliferator activated receptor-associated disorder, phospholipid elimination in bile, renal disease, septicemia, metabolic syndrome disorders (e.g., Syndrome X), thrombotic disorder. Compds. and methods of the invention can also be used to modulate C reactive protein or enhance bile production in a patient (no data). In certain embodiments, I, compns. comprising I, and methods of the invention are useful in combination therapy with other therapeutics, such as hypocholesterolemic and hypoglycemic agents.

=> logoff hold

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
18.74	275.24

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-3.12	-3.12

CA SUBSCRIBER PRICE

SESSION WILL BE HELD FOR 120 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 10:40:23 ON 12 JAN 2007

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 10:48:20 ON 12 JAN 2007
FILE 'CAPLUS' ENTERED AT 10:48:20 ON 12 JAN 2007
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COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	19.21	275.71
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
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CA SUBSCRIBER PRICE	-3.12	-3.12

=> file reg

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	19.21	275.71
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	ENTRY	SESSION
CA SUBSCRIBER PRICE	-3.12	-3.12

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DICTIONARY FILE UPDATES: 11 JAN 2007 HIGHEST RN 917345-85-8

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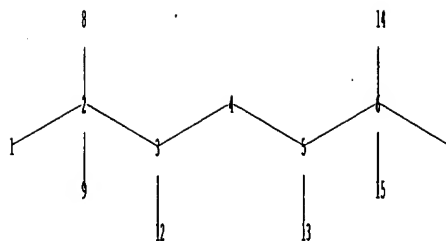
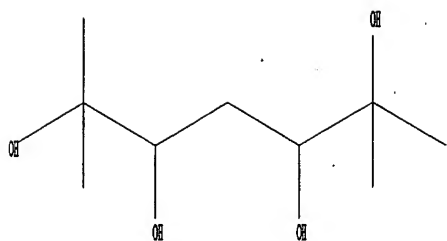
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conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
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experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=>

Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary
files\10743109\10743109 3rd stab.str



chain nodes :

1 2 3 4 5 6 7 8 9 12 13 14 15

chain bonds :

1-2 2-3 2-8 2-9 3-4 3-12 4-5 5-6 5-13 6-7 6-14 6-15

exact/norm bonds :

1-2 3-12 5-13 6-14

exact bonds :

2-3 2-8 2-9 3-4 4-5 5-6 6-7 6-15

G1:C,O

Hydrogen count :

8:>= minimum 3 9:>= minimum 3

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS

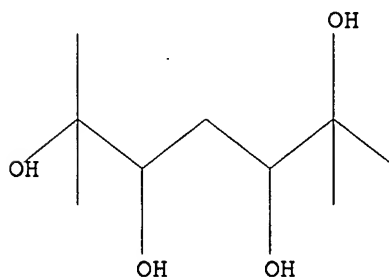
12:CLASS 13:CLASS 14:CLASS 15:CLASS

L17 STRUCTURE UPLOADED

=> d l17

L17 HAS NO ANSWERS

L17 STR



G1 C,O

Structure attributes must be viewed using STN Express query preparation.

=> search l17 sss sam

SAMPLE SEARCH INITIATED 10:48:56 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 191 TO ITERATE

100.0% PROCESSED 191 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS: 2991 TO 4649
PROJECTED ANSWERS: 0 TO 0

L18 0 SEA SSS SAM L17

=> search l17 exact full

FULL SEARCH INITIATED 10:49:19 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 24 TO ITERATE

100.0% PROCESSED 24 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

L19 0 SEA EXA FUL L17

=> search l17 exact fulllogoff hold

COMBINATION OF STRUCTURE AND TEXT TERMS NOT VALID

The query entered contains both search terms created by structure-building or screen commands and text search terms. L#s created via the STRUCTURE or SCREEN commands must be searched in the structures files separately from text terms or profiles. The L# answer sets from structure searches can be used in crossover searches and can be combined with text terms.

=> logoff hold

COST IN U.S. DOLLARS

SINCE FILE.	TOTAL
ENTRY	SESSION
58.70	334.41

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
0.00	-3.12

CA SUBSCRIBER PRICE

SESSION WILL BE HELD FOR 120 MINUTES

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TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

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NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	OCT 23	The Derwent World Patents Index suite of databases on STN has been enhanced and reloaded
NEWS	4	OCT 30	CHEMLIST enhanced with new search and display field
NEWS	5	NOV 03	JAPIO enhanced with IPC 8 features and functionality
NEWS	6	NOV 10	CA/CAPLUS F-Term thesaurus enhanced
NEWS	7	NOV 10	STN Express with Discover! free maintenance release Version 8.01c now available
NEWS	8	NOV 20	CAS Registry Number crossover limit increased to 300,000 in additional databases
NEWS	9	NOV 20	CA/CAPLUS to MARPAT accession number crossover limit increased to 50,000

NEWS 10 DEC 01 CAS REGISTRY updated with new ambiguity codes
 NEWS 11 DEC 11 CAS REGISTRY chemical nomenclature enhanced
 NEWS 12 DEC 14 WPIDS/WPINDEX/WPIX manual codes updated
 NEWS 13 DEC 14 GBFULL and FRFULL enhanced with IPC 8 features and
 functionality
 NEWS 14 DEC 18 CA/CAPLUS pre-1967 chemical substance index entries enhanced
 with preparation role
 NEWS 15 DEC 18 CA/CAPLUS patent kind codes updated
 NEWS 16 DEC 18 MARPAT to CA/CAPLUS accession number crossover limit increased
 to 50,000
 NEWS 17 DEC 18 MEDLINE updated in preparation for 2007 reload
 NEWS 18 DEC 27 CA/CAPLUS enhanced with more pre-1907 records
 NEWS 19 JAN 08 CHEMLIST enhanced with New Zealand Inventory of Chemicals

NEWS EXPRESS NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT
 MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
 AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 09:22:37 ON 16 JAN 2007

=> file reg

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

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STRUCTURE FILE UPDATES: 15 JAN 2007 HIGHEST RN 917470-98-5
 DICTIONARY FILE UPDATES: 15 JAN 2007 HIGHEST RN 917470-98-5

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TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

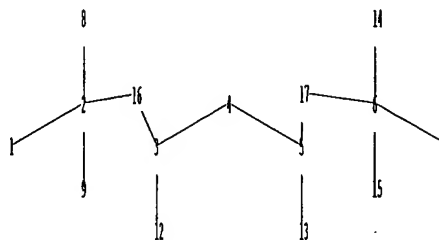
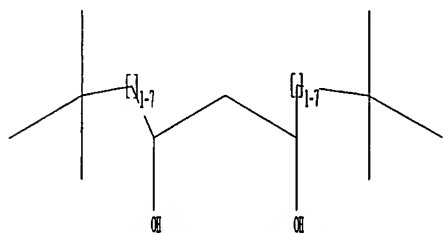
Please note that search-term pricing does apply when
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 experimental property data in the original document. For information
 on property searching in REGISTRY, refer to:

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=>

Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary files\10743109\10743109 4th stab.str



chain nodes :

1 2 3 4 5 6 7 8 9 12 13 14 15 16 17

chain bonds :

1-2 2-9 2-8 2-16 3-12 3-4 3-16 4-5 5-13 5-17 6-15 6-7 6-14 6-17

exact/norm bonds :

3-12 5-13

exact bonds :

1-2 2-9 2-8 2-16 3-4 3-16 4-5 5-17 6-15 6-7 6-14 6-17

G1:C,O

Hydrogen count :

8:>= minimum 3 9:>= minimum 3

Match level :

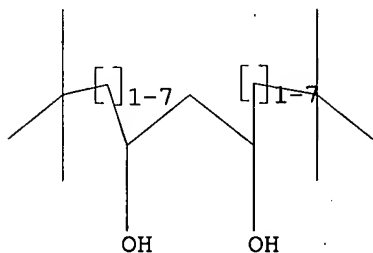
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS
12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR.



G1 C,O

Structure attributes must be viewed using STN Express query preparation.

=> search l1 sss sam

SAMPLE SEARCH INITIATED 09:23:09 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 1072 TO ITERATE

100.0% PROCESSED 1072 ITERATIONS

1. ANSWERS

SEARCH TIME: 00.00.01

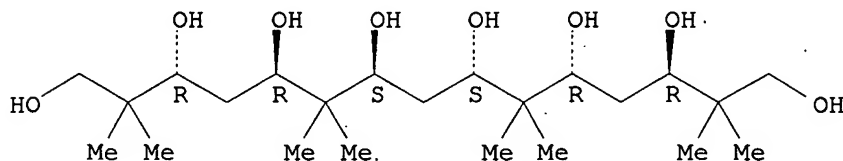
FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 19476 TO 23404
PROJECTED ANSWERS: 1 TO 80

L2 1 SEA SSS SAM L1

=> d scan

L2 1 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN 1,3,5,7,9,11,13,15-Pentadecaneoctol, 2,2,6,6,10,10,14,14-octamethyl-,
(3R,5R,7S,9S,11R,13R)-rel- (9CI)
MF C23 H48 O8

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> search 11 sss full

FULL SEARCH INITIATED 09:23:53 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 20792 TO ITERATE

100.0% PROCESSED 20792 ITERATIONS
SEARCH TIME: 00.00.01

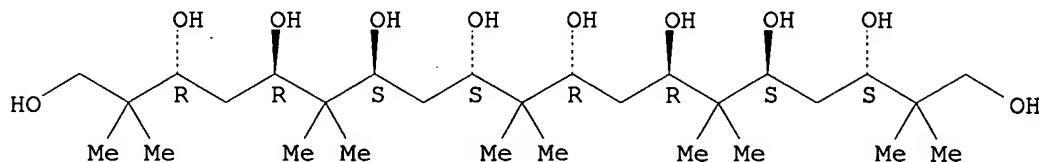
4 ANSWERS

L3 4 SEA SSS FUL L1

=> d scan

L3 4 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN 1,3,5,7,9,11,13,15,17,19-Nonadecanedecol, 2,2,6,6,10,10,14,14,18,18-
decamethyl-, (3R,5R,7S,9S,11R,13R,15S,17S)-rel- (9CI)
MF C29 H60 O10

Relative stereochemistry.

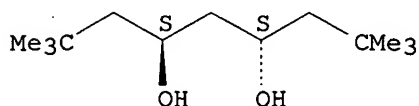


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):5

L3 4 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN 4,6-Nonanediol, 2,2,8,8-tetramethyl-, [S-(R*,R*)]- (9CI)
MF C13 H28 O2

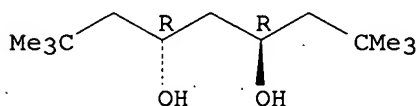
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 4 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN 4,6-Nonanediol, 2,2,8,8-tetramethyl-, (4R,6R)-rel- (9CI)
MF C13 H28 O2

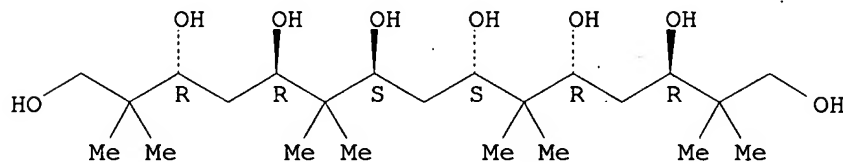
Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 4 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN 1,3,5,7,9,11,13,15-Pentadecaneoctol, 2,2,6,6,10,10,14,14-octamethyl-,
(3R,5R,7S,9S,11R,13R)-rel- (9CI)
MF C23 H48 O8

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> file caplus
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION

FULL ESTIMATED COST

173.90

174.11

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=> L3

L4 4 L3

=> d L4 1-4 ti fbib abs it

L4 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN
TI Flexible molecules with defined shape, XVII. Conformational analysis of oligo-1,3-dioxanylmethanes
AN 2002:283973 CAPLUS
DN 137:169092
TI Flexible molecules with defined shape, XVII. Conformational analysis of oligo-1,3-dioxanylmethanes
AU Trieselmann, Thomas; Hoffmann, Reinhard W.; Menzel, Karsten
CS Fachbereich Chemie der Philipps-Univ., Marburg, 35032, Germany
SO European Journal of Organic Chemistry (2002), (7), 1292-1304
CODEN: EJOCFK; ISSN: 1434-193X
PB Wiley-VCH Verlag GmbH
DT Journal
LA English
OS CASREACT 137:169092
AB Stereoselective synthesis of a series of 1,3-dioxan-4-ylmethanes has been achieved by use of solely substrate-based asym. induction. The simple C2-sym. bis(dioxan-4-yl)methane has a greater than 99% preference at the two inter-ring bonds for a diamond lattice conformation that avoids syn-pentane interactions. The homologous structures contain up to five dioxanylmethane units, maintaining a high conformational preference in each of the bis(dioxanyl)methane units. Thus, these flexible compds. reach a conformational preference in excess of 90% over up to eight rotatable interring bonds.
IT Molecular mechanics
Nuclear spin-spin coupling
(in conformational anal.; preparation of oligo-1,3-dioxanylmethanes by substrate-based asym. induction involving aldol and reduction reactions and their conformational anal.)
IT Heterocyclic compounds
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(oxygen; preparation of oligo-1,3-dioxanylmethanes by substrate-based asym.

- induction involving aldol and reduction reactions and their conformational anal.)
- IT Conformation
Conformational potential
(preparation of oligo-1,3-dioxanylmethanes by substrate-based asym.
induction involving aldol and reduction reactions and their conformational anal.)
- IT Acetals
Oligomers
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation of oligo-1,3-dioxanylmethanes by substrate-based asym.
induction involving aldol and reduction reactions and their conformational anal.)
- IT Aldol condensation
(stereoselective, Mukaiyama; preparation of oligo-1,3-dioxanylmethanes by substrate-based asym. induction involving aldol and reduction reactions and their conformational anal.)
- IT Aldol condensation
(stereoselective, Paterson/Evans; preparation of oligo-1,3-dioxanylmethanes by substrate-based asym. induction involving aldol and reduction reactions and their conformational anal.)
- IT Reduction
(stereoselective; preparation of oligo-1,3-dioxanylmethanes by substrate-based asym. induction involving aldol and reduction reactions and their conformational anal.)
- IT Asymmetric synthesis and induction
(substrate-based; preparation of oligo-1,3-dioxanylmethanes by substrate-based asym. induction involving aldol and reduction reactions and their conformational anal.)
- IT 268750-30-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(Grignard; preparation of oligo-1,3-dioxanylmethanes by substrate-based asym. induction involving aldol and reduction reactions and their conformational anal.)
- IT 77-76-9, 2,2-Dimethoxypropane 116-11-0 1125-88-8, Benzaldehyde dimethyl acetal 2403-58-9, p-Methoxybenzaldehyde diethyl acetal
RL: RCT (Reactant); RACT (Reactant or reagent)
(acetalization; preparation of oligo-1,3-dioxanylmethanes by substrate-based asym. induction involving aldol and reduction reactions and their conformational anal.)
- IT 268750-34-1P 268750-49-8P 446264-34-2P 446264-35-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(acetalization; preparation of oligo-1,3-dioxanylmethanes by substrate-based asym. induction involving aldol and reduction reactions and their conformational anal.)
- IT 36140-19-9, Chlorodicyclohexylborane
RL: RGT (Reagent); RACT (Reactant or reagent)
(aldol reagent; preparation of oligo-1,3-dioxanylmethanes by substrate-based asym. induction involving aldol and reduction reactions and their conformational anal.)
- IT 17510-44-0, 3-Methyl-2-(trimethylsilyloxy)-2-butene 31469-16-6, 1-Ethoxy-2-methyl-1-(trimethylsilyloxy)propene 38216-93-2, 3-Benzyloxy-2,2-dimethylpropanal
RL: RCT (Reactant); RACT (Reactant or reagent)
(aldol; preparation of oligo-1,3-dioxanylmethanes by substrate-based asym. induction involving aldol and reduction reactions and their conformational anal.)
- IT 92156-87-1P, 3-(4-Methoxybenzyloxy)-2,2-dimethylpropanal 268750-31-8P 268750-39-6P 268750-44-3P 268750-46-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(aldol; preparation of oligo-1,3-dioxanylmethanes by substrate-based asym. induction involving aldol and reduction reactions and their conformational anal.)

IT 107-05-1, Allyl chloride
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (allylation; preparation of oligo-1,3-dioxanylmethanes by substrate-based asym. induction involving aldol and reduction reactions and their conformational anal.)

IT 446264-32-0P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (benzylation and acetalization; preparation of oligo-1,3-dioxanylmethanes by substrate-based asym. induction involving aldol and reduction reactions and their conformational anal.)

IT 268750-35-2P
 RL: PUR (Purification or recovery); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (benzylation; preparation of oligo-1,3-dioxanylmethanes by substrate-based asym. induction involving aldol and reduction reactions and their conformational anal.)

IT 126-30-7, 2,2-Dimethyl-1,3-propanediol 2746-25-0, 4-Methoxybenzyl bromide
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (benzylation; preparation of oligo-1,3-dioxanylmethanes by substrate-based asym. induction involving aldol and reduction reactions and their conformational anal.)

IT 185549-53-5
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (building block; preparation of oligo-1,3-dioxanylmethanes by substrate-based asym. induction involving aldol and reduction reactions and their conformational anal.)

IT 268750-42-1P 268750-50-1P 268750-51-2P 446264-26-2P 446264-27-3P
 446264-28-4P 446264-29-5P 446264-30-8P
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (conformation; preparation of oligo-1,3-dioxanylmethanes by substrate-based asym. induction involving aldol and reduction reactions and their conformational anal.)

IT 268750-41-0P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (deprotection/acetalization; preparation of oligo-1,3-dioxanylmethanes by substrate-based asym. induction involving aldol and reduction reactions and their conformational anal.)

IT 268750-33-0P 268750-48-7P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (deprotection; preparation of oligo-1,3-dioxanylmethanes by substrate-based asym. induction involving aldol and reduction reactions and their conformational anal.)

IT 1185-34-8, Dimethylmalondialdehyde
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (double allylation; preparation of oligo-1,3-dioxanylmethanes by substrate-based asym. induction involving aldol and reduction reactions and their conformational anal.)

IT 268750-36-3P
 RL: PUR (Purification or recovery); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (oxidation; preparation of oligo-1,3-dioxanylmethanes by substrate-based asym. induction involving aldol and reduction reactions and their conformational anal.)

IT 446264-31-9P 446264-36-4P, 3-(4-Methoxybenzyloxy)-2,2-dimethyl-1-propanol

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (oxidation; preparation of oligo-1,3-dioxanylmethanes by substrate-based asym.
 induction involving aldol and reduction reactions and their conformational anal.)

IT 81927-55-1, Benzyl trichloroacetimidate
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (ozonolysis; preparation of oligo-1,3-dioxanylmethanes by substrate-based asym. induction involving aldol and reduction reactions and their conformational anal.)

IT 268750-29-4P 268750-38-5P 268750-43-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (ozonolysis; preparation of oligo-1,3-dioxanylmethanes by substrate-based asym. induction involving aldol and reduction reactions and their conformational anal.)

IT 446276-96-6P
 RL: BYP (Byproduct); PUR (Purification or recovery); PREP (Preparation)
 (preparation of oligo-1,3-dioxanylmethanes by substrate-based asym. induction involving aldol and reduction reactions and their conformational anal.)

IT 268750-45-4P
 RL: PUR (Purification or recovery); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (protection; preparation of oligo-1,3-dioxanylmethanes by substrate-based asym. induction involving aldol and reduction reactions and their conformational anal.)

IT 446264-33-1P
 RL: PUR (Purification or recovery); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (reduction; preparation of oligo-1,3-dioxanylmethanes by substrate-based asym.
 induction involving aldol and reduction reactions and their conformational anal.)

IT 268750-32-9P 268750-37-4P 268750-40-9P 268750-47-6P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (reduction; preparation of oligo-1,3-dioxanylmethanes by substrate-based asym.
 induction involving aldol and reduction reactions and their conformational anal.)

IT 89238-99-3P, 4-Methoxybenzyl trichloroacetimidate 268750-28-3P
 RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (transacetalization, conformation; preparation of oligo-1,3-dioxanylmethanes by substrate-based asym. induction involving aldol and reduction reactions and their conformational anal.)

RE.CNT 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN
 TI Stereoselective Synthesis of Skipped Polyols by Substrate-Directed Asymmetric Induction
 AN 2000:216508 CAPLUS
 DN 132:347532
 TI Stereoselective Synthesis of Skipped Polyols by Substrate-Directed Asymmetric Induction
 AU Trieselmann, Thomas; Hoffmann, Reinhard W.
 CS Fachbereich Chemie, Philipps-Universitaet, Marburg, D-35032, Germany
 SO Organic Letters (2000), 2(9), 1209-1212
 CODEN: ORLEF7; ISSN: 1523-7060
 PB American Chemical Society

DT Journal
LA English
OS CASREACT 132:347532
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

- AB A series of C2- or σ -sym. oligo-1,3-dioxanylmethanes such as I have been prepared using a bidirectional approach. In bidirectional syntheses of meso compds., only substrate-based asym. induction could be applied. 1,3-Asym. induction in Mukaiyama-aldol addns., 1,5-asym. induction in enol-borinate aldol reactions, and 1,3-anti-selective reduction of aldols turned out to be reliable tools in the preparation of oligo-1,3-dioxanylmethanes. E.g., 2,2-dimethylmalonaldehyde was allylated with allyl chloride and tin (II) chloride to give a mixture of stereoisomeric dimethylnonanediols $\text{H}_2\text{C:CHCH}_2\text{CH(OH)CMe}_2\text{CH(OH)CH}_2\text{CH:CH}_2$; treatment of the methylnonanediol with 4-methoxybenzaldehyde diethylacetal, ozonolysis, addition of methylmagnesium chloride, Swern oxidation of the intermediate alc., and bis-p-methoxybenzylation gives a diketone diol II ($\text{R} = 4\text{-MeOC}_6\text{H}_4$; $\text{PMB} = 4\text{-MeOC}_6\text{H}_4\text{CH}_2$) in five steps from dimethylmalonaldehyde. E.g., treatment of II with dicyclohexylboron chloride and triethylamine at 0° , followed by addition of $4\text{-MeOC}_6\text{H}_4\text{CH}_2\text{OCH}_2\text{CMe}_2\text{CHO}$ in di-Et ether at -90° gave an aldol adduct in 72% yield which underwent reduction with tetrabutylammonium triacetoxyborohydride to give tetraol III ($\text{R} = 4\text{-MeOC}_6\text{H}_4$; $\text{PMB} = 4\text{-MeOC}_6\text{H}_4\text{CH}_2$) in 96% yield. E.g., reductive cleavage of the p-methoxybenzyl groups and acetalization with 2-methoxypropene gave I.
- IT Alcohols, preparation
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(polyhydric; stereoselective preparation of C2- and σ -sym. oligodioxanylmethanes and of their skipped polyol precursors by substrate-based asym. induction)
- IT Asymmetric synthesis and induction
(stereoselective preparation of C2- and σ -sym. oligodioxanylmethanes and of their skipped polyol precursors by substrate-based asym. induction)
- IT Addition reaction
(stereoselective, aldol; stereoselective preparation of C2- and σ -sym. oligodioxanylmethanes and of their skipped polyol precursors by substrate-based asym. induction)
- IT Aldol condensation
Reduction
(stereoselective; stereoselective preparation of C2- and σ -sym. oligodioxanylmethanes and of their skipped polyol precursors by substrate-based asym. induction)
- IT 77-76-9, Acetone dimethyl acetal 107-05-1, Allyl chloride 116-11-0
542-78-9, Malondialdehyde 870-63-3, 3,3-Dimethylallyl bromide
1185-34-8 2403-58-9, 4-Methoxybenzaldehyde diethyl acetal 17510-44-0
31469-16-6 38216-93-2 89238-99-3 92156-87-1
RL: RCT (Reactant); RACT (Reactant or reagent)
(stereoselective preparation of C2- and σ -sym. oligodioxanylmethanes and of their skipped polyol precursors by substrate-based asym. induction)
- IT 67213-32-5P 67213-33-6P 185549-53-5P 268750-29-4P 268750-30-7P
268750-31-8P 268750-32-9P 268750-33-0P 268750-34-1P
268750-35-2P 268750-36-3P 268750-37-4P 268750-38-5P 268750-39-6P
268750-40-9P 268750-41-0P 268750-43-2P 268750-44-3P 268750-45-4P
268750-46-5P 268750-47-6P 268750-48-7P 268750-49-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(stereoselective preparation of C2- and σ -sym. oligodioxanylmethanes and of their skipped polyol precursors by substrate-based asym. induction)

IT 268750-28-3P 268750-42-1P 268750-50-1P 268750-51-2P

RL: SPN (Synthetic preparation); PREP (Preparation)

(stereoselective preparation of C2- and σ -sym. oligodioxanylmethanes and of their skipped polyol precursors by substrate-based asym. induction)

RE.CNT 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN

TI Additional data on the synthesis and properties of chiral 1,2-bis(phosphetano)benzenes

AN 2000:52123 CAPLUS

DN 132:180702

TI Additional data on the synthesis and properties of chiral 1,2-bis(phosphetano)benzenes

AU Marinetti, Angela; Jus, Sebastien; Genet, Jean-Pierre; Ricard, Louis

CS Laboratoire de Synthese Selective Organique et Produits Naturels, UMR CNRS 7573, E.N.S.C.P.-11, Paris, 75231, Fr.

SO Tetrahedron (1999), Volume Date 2000, 56(1), 95-100
CODEN: TETRAB; ISSN: 0040-4020

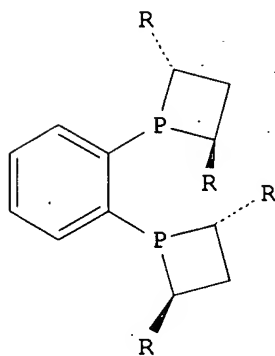
PB Elsevier Science Ltd.

DT Journal

LA English

OS CASREACT 132:180702

GI



AB The synthesis of chiral, C2-sym. 1,2-bis(phosphetano)benzenes **2** (shown as **I**; R = CHMe₂, Me, CH₂Ph) was extended to the benzyl-substituted derivative **2c** (R = CH₂Ph). Stable Ru and Pd complexes containing these ligands were isolated. X-ray diffraction studies were performed on the monoborane adduct of **2a** (R = CHMe₂) and on a Pd(II) complex of **2b** (R = Me). Ligands **2** were effective as chiral ligands on ruthenium catalysts for stereoselective hydrogenation of β -keto esters, affording up to 90% ee.

IT Esters, reactions

RL: RCT (Reactant); RACT (Reactant or reagent)

(keto, β -; stereoselective hydrogenation of keto esters in presence of chiral ruthenium catalysts with bis(phosphetano)benzene ligands)

IT Crystal structure

Molecular structure

(of chiral bis(phosphetano)benzene monoborane adduct and palladium

complex)

IT Hydrogenation catalysts
(stereoselective; ruthenium with chiral bis(phosphetano)benzene ligands)

IT 225234-53-7
RL: PRP (Properties)
(crystal structure of)

IT 259228-97-2P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(crystal structure; preparation of chiral bis(phosphetano)benzene palladium derivs.)

IT 135943-84-9P 223390-88-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation and conversion to cyclic sulfate)

IT 80510-04-9, 1,2-Bis(phosphino)benzene 190671-78-4 224619-88-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of chiral bis(phosphetano)benzene derivs.)

IT 224057-16-3P 259228-88-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation of chiral bis(phosphetano)benzene derivs.)

IT 259228-90-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of chiral bis(phosphetano)benzene derivs.)

IT 259228-96-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of chiral bis(phosphetano)benzene palladium derivs.)

IT 259228-93-8P 259228-95-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of chiral bis(phosphetano)benzene ruthenium derivs.)

IT 14220-64-5
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of palladium complexes containing chiral bis(phosphetano)benzene ligands)

IT 52462-29-0
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of ruthenium complexes containing chiral bis(phosphetano)benzene ligands)

IT 259228-89-2P
RL: CAT (Catalyst use); RCT (Reactant); SPN (Synthetic preparation); PREP
(Preparation); RACT (Reactant or reagent); USES (Uses)
(stereoselective hydrogenation catalyst ligand; preparation of chiral bis(phosphetano)benzene derivs.)

IT 12289-94-0 76189-55-4
RL: CAT (Catalyst use); USES (Uses)
(stereoselective hydrogenation of diketones)

IT 1118-71-4 17575-03-0 51307-04-1
RL: RCT (Reactant); RACT (Reactant or reagent)
(stereoselective hydrogenation of diketones)

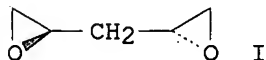
IT 259228-91-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(stereoselective hydrogenation of diketones)

IT 224619-92-5
RL: CAT (Catalyst use); USES (Uses)
(stereoselective hydrogenation of keto esters in presence of chiral ruthenium catalysts with bis(phosphetano)benzene ligands)

IT 94-02-0 105-45-3 7152-15-0
RL: RCT (Reactant); RACT (Reactant or reagent)
(stereoselective hydrogenation of keto esters in presence of chiral ruthenium catalysts with bis(phosphetano)benzene ligands)

IT 3976-69-0P 33401-74-0P 95614-85-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(stereoselective hydrogenation of keto esters in presence of chiral
ruthenium catalysts with bis(phosphetano)benzene ligands)
RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN
TI Optically pure 1,3-diols from (2R,4R)- and (2S,4S)-1,2:4,5-diepoxy-pentane
AN 1991:558456 CAPLUS
DN 115:158456
TI Optically pure 1,3-diols from (2R,4R)- and (2S,4S)-1,2:4,5-diepoxy-pentane
AU Rychnovsky, Scott D.; Griesgraber, George; Zeller, Sam; Skalitzy, Donald
J.
CS Dep. Chem., Univ. Minnesota, Minneapolis, MN, 55455, USA
SO Journal of Organic Chemistry (1991), 56(17), 5161-9
CODEN: JOCEAH; ISSN: 0022-3263
DT Journal
LA English
OS CASREACT 115:158456
GI



AB Optically pure (>97% ee) (2R,4R)-1,2:4,5-diepoxy-pentane (I) and its enantiomer are prepared in 3 steps from (MeCO)₂CH₂ without the need for chromatog. purification Diepoxide I is an efficient precursor to a wide variety of optically pure syn- and anti-1,3-diols. Reaction with excess nucleophile gives sym. anti-1,3-diols in good yield. Reaction with a slight excess of alkyl lithium under Ganem's conditions gives the monoepoxides in good yield; addition of a 2nd nucleophile then gives asym. anti 1,3-diols. Mitsunobu inversion of the monoepoxide followed by addition of a 2nd nucleophile gives syn-1,3-diols.

IT Glycols, preparation
RL: RCT (Reactant); RACT (Reactant or reagent)
(1,3-, stereoselective synthesis of, by ring cleavage of diepoxy-pentanes)

IT Ring cleavage
(stereoselective, of optically pure diepoxy-pentanes, diols by)

IT 103745-89-7 109361-17-3
RL: CAT (Catalyst use); USES (Uses)
(catalysts, for stereoselective hydrogenation of dichloropentanedione)

IT 67-64-1, Acetone, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(cyclocondensation reaction of, with dibromopentanediol, dioxane derivative by)

IT 40630-12-4
RL: RCT (Reactant); RACT (Reactant or reagent)
(hydrogenation of, stereoselective catalytic)

IT 135943-96-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and acidification of)

IT 135943-79-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and benzylation of)

IT 135943-82-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and cyclocondensation reaction of, with acetone)

IT 136030-28-9P 136030-29-0P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and dehydrochlorination of, diepoxypentane by)

IT 135943-81-6P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and ozonolysis of, in synthesis of hydroxyphenethyltetrahydropyranone)

IT 109905-51-3P 131563-81-0P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and ring cleavage of, with electrophiles, stereoselective)

IT 135943-80-5P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and ring cleavage of, with vinyl lithium)

IT 86117-01-3P 103729-39-1P 129212-21-1P 130275-04-6P 130481-49-1P
 135943-83-8P 135943-84-9P 135943-85-0P 135943-86-1P
 135943-87-2P 135943-88-3P 135943-89-4P 135943-90-7P 135943-91-8P
 135943-92-9P 135943-93-0P 135943-94-1P 135943-95-2P 135972-36-0P
 136030-30-3P
 RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of)

IT 123-54-6, 2,4-Pentanedione, reactions
 RL: RCT (Reactant); RACT (Reactant or reagent)

(reaction of, with chloroacetyl chloride)

IT 79-04-9, Chloroacetyl chloride
 RL: RCT (Reactant); RACT (Reactant or reagent)

(reaction of, with pentanedione)

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COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
14.09	188.20

FULL ESTIMATED COST

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SINCE FILE	TOTAL
ENTRY	SESSION
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ENTRY	SESSION
14.09	188.20

FULL ESTIMATED COST

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=> file reg

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 DICTIONARY FILE UPDATES: 15 JAN 2007 HIGHEST RN 917470-98-5

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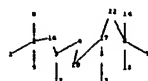
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<http://www.cas.org/ONLINE/UG/regprops.html>

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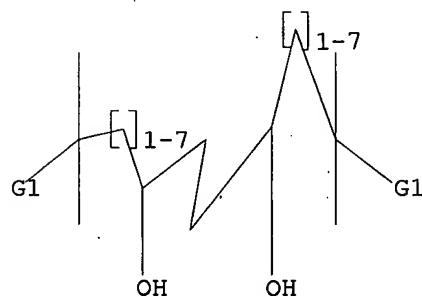
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 chain bonds :
 1-2 2-9 2-8 2-16 3-12 3-4 3-16 4-20 5-17 5-13 6-15 6-7 6-14 6-22
 17-20 17-22
 exact/norm bonds :
 1-2 3-12 5-13 6-7
 exact bonds :
 2-9 2-8 2-16 3-4 3-16 4-20 5-17 6-15 6-14 6-22 17-20 17-22

G1:C,O

Hydrogen count :
 4:>= minimum 2 8:>= minimum 3 9:>= minimum 3 20:>= minimum 2
 Match level :
 1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS
 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 20:CLASS 22:CLASS

L5 STRUCTURE UPLOADED

=> d 15
 L5 HAS NO ANSWERS
 L5 STR



G1 C,O

Structure attributes must be viewed using STN Express query preparation.

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 SAMPLE SCREEN SEARCH COMPLETED - 15906 TO ITERATE

12.6% PROCESSED 2000 ITERATIONS 0 ANSWERS
 INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
 SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**
 PROJECTED ITERATIONS: 310567 TO 325673
 PROJECTED ANSWERS: 0 TO 0

L6 0 SEA SSS SAM L5

=> search 15 sss full
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FULL SCREEN SEARCH COMPLETED - 314006 TO ITERATE

100.0% PROCESSED 314006 ITERATIONS
SEARCH TIME: 00.00.03

0 ANSWERS

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=> logoff hold

COST IN U.S. DOLLARS

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TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

172.55

361.22

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

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PASSWORD:

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COST IN U.S. DOLLARS

SINCE FILE

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SESSION

FULL ESTIMATED COST

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361.22

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

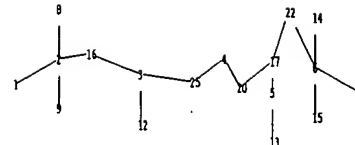
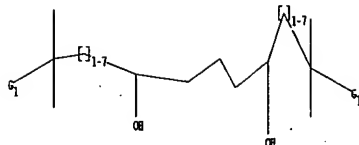
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0.00

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files\10743109\10743109 6th stab.str



chain nodes :

1 2 3 4 5 6 7 8 9 12 13 14 15 16 17 20 22 25

chain bonds :

1-2 2-9 2-8 2-16 3-12 3-16 3-25 4-20 4-25 5-17 5-13 6-15 6-7 6-14
6-22 17-20 17-22

exact/norm bonds :

1-2 3-12 5-13 6-7

exact bonds :

2-9 2-8 2-16 3-16 3-25 4-20 4-25 5-17 6-15 6-14 6-22 17-20 17-22

G1:C,O

Hydrogen count :

4:>= minimum 2 8:>= minimum 3 9:>= minimum 3 20:>= minimum 2

Match level :

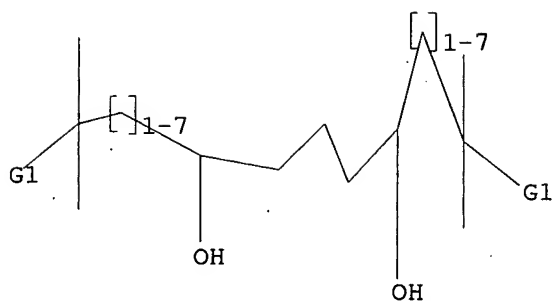
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12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 20:CLASS 22:CLASS
25:CLASS

L8 STRUCTURE UPLOADED

=> d 18

L8 HAS NO ANSWERS

L8 STR



G1 C,O

Structure attributes must be viewed using STN Express query preparation.

=> search l8

ENTER TYPE OF SEARCH (SSS), CSS, FAMILY, OR EXACT:sss
 ENTER SCOPE OF SEARCH (SAMPLE), FULL, RANGE, OR SUBSET:sam
 SAMPLE SEARCH INITIATED 10:13:09 FILE 'REGISTRY'
 SAMPLE SCREEN SEARCH COMPLETED - 15830 TO ITERATE

12.6% PROCESSED 2000 ITERATIONS 0 ANSWERS
 INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
 SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**
 PROJECTED ITERATIONS: 309065 TO 324135
 PROJECTED ANSWERS: 0 TO 0

L9 0 SEA SSS SAM L8

=> search l8 sss full

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100.0% PROCESSED 312463 ITERATIONS 0 ANSWERS
 SEARCH TIME: 00.00.03

L10 0 SEA SSS FUL L8

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	345.55	534.22
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-3.12

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